

SALINDERS

**PSYCHIATRIC** CLINICS OF NORTH AMERICA

Psychiatr Clin N Am 27 (2004) 827-852

# Cumulative Index 2004

# Volume 27

December

March COGNITIVE AND NEUROLOGIC IMPAIRMENTS IN PSYCHIATRIC

DISORDERS, pages 1-186

Lune ADULT ATTENTION-DEFICIT/HYPERACTIVITY DISORDER, pages

187-390

September DISASTER PSYCHIATRY: A CLOSER LOOK, pages 391-610

ADDICTIVE DISORDERS, pages 611-852

Note: Page numbers of article titles are in boldface type.

ABT-418, for ADHD, 380-381

Acamprosate, for alcohol addiction, 635-636

Acetylcholine, in basal ganglia circuitry, 780-781

Adderall. See Amphetamine (Adderall).

Addiction, occupational exposure and, 743-751. See also Anesthesiologists, addiction in; Physicians, addiction in. of physicians and anesthesiologists, 744-749 as problem, 743-744

physicians and anesthesiologists at risk for, 744-745

Addiction psychiatry, addiction treatment in jails and prisons and, 621-622 forensic and medical issues in, 611-626

addiction treatment in jails and prisons, 621 child custody in, 617-618

civil matters in, 613-614 competencies in, civil, 614 to stand trial, 618 confidentiality in, 616-617 criminal matters in, 618-621 diminished capacity in, 619 disability and, 614-616

driving offenses, alcohol and drug-related, 620-621 duty to protect or warn in,

617-618 impairment and fitness to practice, 622-623

involuntary commitment and, 613-614

liability and, 624

pregnancy in, harm to fetus and child abuse and.

619-620 professional liability in, 616 regulatory matters in, 622-624

sanity in, 618-619 tissue testing in, 623-624

forensic evaluation vs. clinical evaluation in, 612-613 diagnosis and language in, 613

forensic psychiatry in, description of, 611-612

Addictive disorders. See also Substance use disorders.

medical comorbidity in, 675-686 alcohol use and, 677-681 amphetamine use and. 682-683

cocaine use and, 681-682 opiate use and, 683-684

tobacco use and, 675-677 and psychiatric disorders. See also Drug withdrawal.

neurobiological mechanisms in, 661-674

relapse prevention in, 627-648

Adolescents, trauma and, reaction to, 494-495

Adrenergic blocking agents, for cocaine addiction, 641-642

Adult Self-Report Scale (ASRS), for ADHD, 198-199

Affective disorders, co-occurring substance use disorders and, **649–659** differentiation from substance-induced states, 650–651

Agitation, psychomotor, in mood disorders, 28

Alcohol dependence, pharmacotherapies for, 628-629

Alcoholism. See Alcohol use/abuse.

Alcohol use/abuse. See also Substance use disorder (SUD). in adults with ADHD, impact on driving, 243–246 cardiomyopathy and, 679–680 cirrhosis and, mortality from, 681 cognitive-behavioral therapy for, 711 cognitive impairment from, long-term, 99–100

in recent detoxification, 99 coronary heart disease and, 680 diabetes and, 678 hypertension and, 678–679 neurophysiological changes with, 99 in Parkinson's disease, 803 pathological, post-disaster, 444–445 pharmacotherapies for, acamprosate, 635–636

serotonergic agents, 635 topiramate, 636 prescription opiates in, contraindication to, 687 risks and benefits of, 677–678 stroke and, 680

disulfiram, 633-634

naltrexone, 634-635

Alcohol withdrawal, anxiety and depression in, 665 corticotropin-releasing factor systems in, 665

Alpha<sub>2</sub>-receptor agonists, in disaster therapy, 437 post-disaster, 437

Alpha<sub>1</sub>-receptor antagonists, post-disaster, 437

Alzheimer's disease, mood disorders and, 22

Amantadine, for cocaine addiction, 640

Amphetamine abuse, cognitive impairment from, 102-103

Amphetamine (Adderall), for ADHD, in adults, 369-371

Massachusetts General Hospital study of, 369-370 Amphetamine extended-release (Adderall-XR), for ADHD, in adults, multi-site trial of, 370-371

Amphetamine use, cardiovascular effects of, 682–683 neurotoxicity with HIV medications

Amphetamine withdrawal, anhedonia in, 664-665 deficit in brain reward function in, 664-665

Amygdala, anatomy of, 57–58
in conditioned fear, startle,
physiological reactivity, 57–58
in conditioned fear response, 58–59
partial kindling in, in conditioned fear,
startle, physiological reactivity,
58
in stress reactions, 426–427

Anesthesia, recreational use of, 745

Anesthesiologists, addiction in, case histories of, 745–747 opiate addiction in, neurobiology of exposure and, 747–749

Anger, hostility, and aggression (road rage), in ADHD, in adolescents, 251 in adults, 250-251 independent of ADHD, 251-252 studies of, 250

Antalarmin, posttrauma, 440

Anticonvulsants, for bipolar disorder, in children and adolescents, 160–163 combinations of, 164–165 novel, 163–164 in chronic PTSD, 443–444 for comorbid substance abuse and bipolar disorder, 656 in disaster therapy, 443–444

Antidepressants, for depressive illnesses, in children and adolescents, studies of, 120–121 myoclonus from, 29–30

Antipsychotics, in acute stress disorder, 443 atypical, 7 in bipolar disorders, in children and adolescents, 165–167 in chronic PTSD, 442 comparison with lithium, in mania and schizoaffective mania, 165 conventional, 7

volume changes in subcortical and cortical regions and, 7-8

in disaster therapy, 442-443

378-380

ilts.

of.

18

1.

ear.

ge),

in

nd

Antisocial disorders, in ADHD, substance use disorder and, 291 Anxiety/anxiety disorders, disasters and, long-term aftermath of, 403 in face of ongoing threat, 403-404 in Parkinson's disease, 801-802 disorder, 61

in progressive supranuclear palsy, 810 Anxiety disorders, comorbid with substance use disorders, 667-668 Assertive community treatment (ACT), for dual-diagnosis patients, 711-712 substance abuse and, 712 Astressin, posttrauma, 440 Atomexetine, for ADHD, in adults, in children and adolescents, 377-378 for driving performance, 255 with substance use disorder, 294 Attentional bias, in posttraumatic stress Attention deficit hyperactivity disorder (ADHD), in adults, 303-304 brain function and structure in, 323-347 and in children of, 313 comorbidity in, 190 coping skills and, 195 cultural considerations and, 194 current symptom surveys for, 197-199 diagnosis and evaluation of, 187-201 diagnosis of, 190-195 diagnostic scales for, 196-197 educational outcomes in, 193 gender and, 194 neurological function in, 261-282 nonstimulant treatment of, 373-383 occupational challenges and, 192-193 presenting problems in, 191-192 prevalence of, 349 psychosocial treatments for, 349-360 relationships and family life and, 193-194 stimulant treatment of, 361-372 symptom criteria for, 189-190 treatment of, behavioral and cognitive therapies for, 292 nonstimulants in, 373-383 psychosocial, 349-360 stimulants in, 361-372

age and, 215-224 animal models of, colomba mouse, 311-312 monkey, 307 methyl-4- phenyl-1, 2, 3, 6-tetrahydropyridine in, 307 rat model of hyperactivity, methylenedioxymethamphetamine in, 312-313 spontaneously hypertensive rat. 307-308 attention-executive dysfunction concept in, 262-263 brain function and structure in. 323-347 characterization of, 83, 303-304 cognition in, 84-86 comorbidity in, driving impairments and, studies of, 235-236 familial transmission of, gender and, 228, 230-231 genetics and, 304 substance use disorders and. 284-285, 293-295 diagnosis of, 190-195, 324 current, 324 scales for, 196-197 diagnostic construct of, 262 drivers with, driving performance models and, 236-238 risks in, 238-242 driving impairments in, 233-260 anger, hostility, aggression and, 250-252 risks for, 233-235 large-scale study of, 240-242 pilot study of, 238-240 self-evaluation of performance and, 246-249 substance use disorder effect on, 227-230, 243-246 in DSM-II, 188, 208 in DSM-III, 188, 210 in DSM-III-R, 188-189, 210-211 in DSM-IV, 189, 211-212 in DSM-IV-TR, 189-190, 212 environmental factors in. 305-306, 315 executive dysfunction in, 83-96 cognitive remediation for, 91-92 examples and descriptions of, 84-85 neural substrates of, 91 psychostimulant medication in. stimulant medications research and, 85-86

Attention (continued) executive function/dysfunction in, functional neuroimaging studies of. 86-88 gender effect on, 269-270 and response inhibition, brain mapping of, 273-274 executive functions in, frontal-striatalthalamic-cortical circuitry in, 86 functional neuroimaging studies of. 86-88 neuroanatomy of, 86-88 familial transmission of, 313-315 psychiatric comorbidity in, gender and, 228, 230-231 reporter bias issue in, 314-315 functioning in, heterogeneity of, in persistent and remitted cases, 220-222 gender influence on, 225-232 in clinical presentation, 227-228, Massachusetts General Hospital studies of, 225-232 methods in, 226-227 psychiatric comorbidity and, 227, 229 psychiatric disorders among parents and siblings, 228-230 substance use disorders and, 227-230 subtypes in, 227-228 genetics of, 303-321 heterogeneity of, and brain abnormalities, 334 history of, in adults, 187-188, 203-214 terminology in, 207-210, 262, 324 attention-deficit vs. hyperactivity in. 210 Benzedrine for, 206 biologic etiology in, 205 brain damage and, 205-206 hyperkinetic reaction of childhood, 208-209 minimal brain damage label in, 206-208 moral control notion in, 204 persistence into adulthood. 209-210 1930s, 205-206 19th century, 203-204 World War I, 205 hyperactive/impulsive type, 227-228, 230

inattentive type, 227-228, 230

Massachusetts General Hospital studies of, 225-232, 378-381 molecular studies of, catechol-omethyltransferase gene in, 311 dopamine receptor genes. 308-309, 311 dopamine system genes in, 307-311 dopamine transporter gene. 310-311 serotonergic system in, 312-313 neuroimaging in, functional, 89-90 literature for, 90-91 neurochemical, 90 structural, 88 structure-executive function correlation in, 88 neurological function in, 261-282 nonstimulant treatment of, 373-383 ABT-418 in, 380-381 cholinergic agents and, 380-381 desipramine in, 373-375 monoamine oxidase inhibitors in, SSRIs in, 376-377 venlafaxine in, 377 persistent form of, genetics of, 313-315 syndromic in children and adults, 338 prevalence of, 83 psychosocial treatments for, 349-360 remission in, syndromic vs. symptomatic, 219-220 risks for, 304 stimulant treatment of, in children and adolescents, 361-362 comorbidity and, 361-362 substance use disorder in, 283-301. See also Substance use disorder (SUD), in ADHD. impact on driving, 243-246 subtypes of, 227-228, 324 symptoms in, 188-190 in adults with substance use disorder, 291-292 decline in, age-dependent, 216-218 impact on persistence rates, 218-220

Attention-executive dysfunction, in ADHD, 262-263, 267-268 development of, 324-325 gender effect on, 269-270

Attention/working memory, in mood disorders, impaired, 22–23

structural and functional abnormalities of brain regions in, 25

Atypical antipsychotics, 7 in schizophrenia, caudate enlargement and, secondary to conventional neuroleptic therapy, 8

Avoidant behavior, in children, posttraumatic, 475 in countertransferance, 574–575

### B

Baclofen, for cocaine addiction, 641

Basal ganglia, 755-796

anatomy of, fronto-striatal circuits, 760-768 pallidum, 758-759 striatum, 756-758 substantia nigra reticula, 759-760 subthalamic nucleus, 762 neuroimaging studies of, in ADHD in

children, 329-330 in adults with ADHD, 337

pharmacology of, acetylcholine in, 780–781 dopamine in, 778–780

dopamine in, 778–780 glutamate in, 781–782 serotonin in, 782

physiology of, 770–778
activity at rest, 771
motor networks in, 774–776
frequency-dependent
activation of, 776–778
neuronal responses in,

activity-related, 771-774 in psychiatric disorders, 755 role in cognition and emotion, 755

Behavioral interventions, in ADHD, for driving impairments and adversities, 253-254

Benzodiazepines, in disaster therapy, 437–439 in emergency trauma treatment, 561 posttrauma, 438–439 in PTSD, 437–438 prevention of, 438

Best practice. See also Evidence-based best practice.
in dual-diagnosis treatment, 728

Beta-adrenergic blockers, post-disaster, 435–437

Beta adrenergic blocking agents, in disaster therapy, 435-437

Bipolar disorder. See also Depression.

in ADHD, 192, 285

substance use disorder and, 290-291

in children and adolescents,

anticonvulsants for, 160-163 combinations of, 164-165 novel, 163-164, 169

antipsychotics for, 165–167 calcium-channel blockers for, 168 carbamazepine for, 162–163 clozapine for, 165–166

electroconvulsive therapy for, 167

gabapentin for, 164 lamotrigine for, 163–164 olanzapine for, 166–167 omega-3 fatty acids for, 168 quetiapine for, 166 risperidone for, 166

somatic treatment of, 153–176 duration of, 154

medication choice in, 154 valproate for, 160-161 cognitive deficits in, frontal lobe

function and, 26 co-occurrence of substance use disorders in, 655-657 pharmacologic treatments for,

655-656 psychosocial treatments for, 656

executive function in, 23 symptom criteria for, DSM-IV, 21

Borderline personality disorder (BPD), developmental studies of, contributions of psychosocial factors and neuropsychological factors, 68

executive functions and, 68 frontal lobe and executive functions in, 68

neuropsychological dysfunction and attention deficit disorder in, 68

empirical study of inpatients, 71-75 agitation-excitement factor of, 75-76

areas of psychopathology and performance in, 75-76

correlations between psychopathology and neuropsychological functioning, 78

limitations of, 78-79 materials and procedure in, 73-74

neurological abnormalities in, 75-76

neuropsychological impairment '
in, across cognitive
domains, 76

Borderline (continued) attention deficit, 77 verbal learning and memory deficits, 77-78 neuropsychological tests in, 72-73 participants in, 73 results of, 74-75 cognitive performance below normative group, 74-75 tests per cognitive domain in, 72 - 73treatment implications of, cuing strategies, 80 Dialectical Behavior Therapy in, 80 psychoeducational strategies, 80 screening for cognitive impairment, 79 neuroimaging studies of, 69-70 frontal and hippocampal compromise on, 78 neurological studies of, discussion of, limitations of, 78-79 neurophysiological profile of, limitations to research in, 67-68 neuropsychological impairment in, neuropsychological studies of, 70 cognitive functioning deficits in. 70-71 consistent findings in, 71 previous studies of, CT, 69 electroencephalogram abnormalities in, 69 positron emission tomography. 69-70 prevalence of soft signs in, 69 studies of, empirical of inpatients, 70-75 findings in, 70-71 neuroimaging, 69-70

review of previous, 69–71

Brain, in ADHD, structure and function of, 323–347

neurological, 69

affective abnormalities and, 339 neuropsychological dysfunction and, 333 relationships of, 338 research needs in, 338–339

in mood disorders, structural and functional abnormalities of, 24-27 Brain abnormalities, in ADHD, gender effect and, 334-336 in ADHD in children, learning disabilities and, 332 mood disorders and, 332-333 psychiatric comorbidity and, 331-332 in heterogeneity of ADHD, 334

Brain dysfunction, in ADHD, attention-executive dysfunction concept in, 324-235

324–325
historical background of,
324–325
hypotheses for, 324–326
neuropsychological studies of, in
adults, 326
in children and adolescents.

325-326

Brain imaging, in ADHD, in adults, 336-338

basal ganglia (striatum), 337
dorsal anterior cingulate
cortex, 336–337
other subcortical and
cortical regions,
337–338
prefrontal cortex, 336
in children and adolescents,
326–331
of basal ganglia (striatum),
329–330
of cerebellum, 331

329–330
of cerebellum, 331
of cerebral volume, total
and lateralized, 327
of corpus callosum, 328–329
of dorsal anterior cingulate
cortex, 328
of nucleus accumbens, 330
of prefrontal cortex, 328
of thalamus, 330
hypothesized regions of interest

for, 326-327 structural and functional, in ADHD, 336-338

group averaged vs. individual, 339

Brain mapping, of executive functions and response inhibition, in ADHD, 273-274

Brain structure, in ADHD, longitudinal studies of, 338

Brown Attention Deficit Disorder Scales Diagnostic Form, for ADHD, 197–198

Buprenorphine, for opioid addiction, 638-639

Bupropion, for ADHD, in adults, 375–376 in children, 375 in children and adolescents, 116–117 for depression, in children and adolescents, 116–117

adolescents, 116-117 for smoking cessation, 632-633

Bupropion SR, in ADHD, with substance use disorder, 293–294

### 0

Calcium-channel blockers, for bipolar disorder, 168

Cannabis use/abuse, co-occurring with depression, 669 intoxication from, 100–101 neuropsychological effects of, 101–102

Cannabis withdrawal, affective and physical symptoms of, 666 corticotropin-releasing factor systems in, 666-667

Carbamazepine, for behavioral disorders, in children and adolescents, 162 for bipolar disorder, in children and adolescents, 162 glosing of, 163 side effects of, 163 in chronic PTSD, 443 for comorbid substance abuse and bipolar disorder, 656

Cardiac conduction, lithium and, in children, 159

Catatonia, in depression, 28-29 symptoms of, 28

Catecholaminergic antidepressants, for ADHD, 292

Catecholamines, in posttraumatic stress disorder, 54

Catechol-o-methyl transferase (COMT) gene, in ADHD, 311

Cerebellum, imaging studies of, in ADHD in children, 331

Cerebrum, imaging of, in ADHD in children, 327

Child abuse, in addiction psychiatry, 619-620

Child custody, in addiction psychiatry, 617

Children, disaster intervention with, after initial reaction to events, 483–484 guidelines for, 478 exposure to community disasters and violence, mental health programs for, 491-504

post-9/11, 491-504

case illustrations of relational PTSD, 478-480

posttraumatic stress in, 474–476 case of child-father shared nightmares, 478–480 relationship with parent and, 477–478

post-9/11 traumatic stress in, relational and developmental perspectives, 473-489

PTSD in, models of, 476 relational and developmental perspective on, 477–478 symptoms of, 476

trauma and, parents and, 474
reaction to, 494
re-experiencing of event, 475
separation from mother,
473-474

trauma programs for, acceptability and feasibility of, to community, 495-496 community-based, 496-499

mentoring programs in, 500-501 school-based, 497-498

support in, 498 traumatized, intervention with,

parental participation in, 493–494 mental health planning for,

awareness of traumatized parenting, 492-494 context sensitivity in, 495-497

engaging community, families, and children in, 498–499

enhancement of resilience in, 499-500

flexibility and diversity of interventions in, 494-495

gap between services available and used, 492 zero to three, traumatic stress disorder

in, diagnostic criteria for, 476–477

Chloroform addiction, Glover and, 745

Cholecystokinin, in disaster therapy, 445-446 post-disaster, 445-446

Cholinergic agents, for ADHD, 380-381

Cholinergic interneurons, in striatum, 781

Cholinergic neurons, acetylcholine from, 780

projections of, 780-781

Cigarette smoking, ADHD and, 287, 290 substance use disorder and, 287

Citalopram, in pediatric depressive disorders, 125, 126

Clonidine, post-disaster, 437

Clozapine, in bipolar disorder, in children and adolescents, 165–166 in Parkinson's disease, for drug-induced psychosis, 800–801

Cocaine addiction, cognitive impairment from, 102
Halsted and, 745
pharmacotherapies for, adrenergic blockers, 641–642
dopaminergic medications, 640–641
gamma aminobutyric acidergic medications, 641
immunotherapies, cocaine vaccine, 642
withdrawal from, 102

Cocaine use, myocardial infarction and, 681 nonischemic myocardial disease and arrhythmias, 681-682

Cocaine vaccine, 642

Cocaine withdrawal, anxiety and depressive-like symptoms in, 662-663

Codeine, effects of, 690

Cognition, correlation with regional blood flow in brain, 25-26 dysfunctional, in ADHD, 352 relationship with mood and movement, 31

Cognitive-behavioral therapy, for alcohol abuse, 711 seeking safety therapy in, 718 for substance abuse disorders, 711

Cognitive-behavioral therapy (CBT), for ADHD, in adults, 349-352 model of, 351-352 ongoing study at Massachusetts General Hospital,

354–358 published studies of, 352–354 Massachusetts General Hospital studies of, 354–358 studies of, 352–354

in pediatric depression, 138–139 adaptation of group format comparison with interpersonal psychotherapy, 143

coping with depression course, 141

plus parents' group, 141 with emotion control, self-reinforcement, social problem solving, cognitive restructuring, 142

negative attributions/social problem solving focus in, 142

social skills training compared with supportive therapy in-142, 141 traditional form of, 142-143

post-disaster, 401

Cognitive disorders, in Parkinson's disease, 799-800

Cognitive enhancement therapy, in schizophrenia, 11

Cognitive function, before and after trauma, and recovery from acute stress, 430-431

Cognitive impairment, in Parkinson's disease, 799–800 in Shy-Drager syndrome, 807 in striatonigral degeneration, 807 in substance abuse, 97–109. See also Substance abuse, cognitive impairment from.

Cognitive psychotherapeutic techniques, in post-disaster intervention, 404

Cognitive remediation therapy, in schizophrenia, 11

Combat fatigue, 408-409

Combat trauma. See also War psychiatry. cognitive reconstruction of, 409 prevention of, 409

Community, disaster and, 391-392 trauma programs for children and, 495-496

Comorbidity, of affective and substance use disorders, 649-659 nonpharmacologic treatments for, 651-652 pharmacologic and psychosocial

treatment, 652

psychotherapeutic/psychosocial strategies for, 651-652 of bipolar disorder and substance use disorders, 655-657 of major depression and substance use disorders, 652-654

Competency(ies), civil, in addiction psychiatry, 614 to stand trial, in addiction psychiatry, 618

Comprehensive continuous integrated system of care (CCISC), characteristics of, 727–728 for dual-diagnosis patients,

725–741 description of, 726–727 principles of treatment for, 728–730

Conditioned fear response, amygdala in, in PTSD, 58-59 in PTSD, amygdala and prefrontal cortexes in, 59

Conduct disorder, in ADHD, auto accidents and, 235 substance use disorder and, 290-291

Confidentiality, of patients with substance-related disorders, in addiction psychiatry, 616-617

Conners Adult Attention Deficit Hyperactivity Disorder Diagnostic Interview, in ADHD, 196

Continuous Performance Test (CPT), in ADHD, for vigilance and sustained attention, 271

Controlled Substance Act (CSA 1970), determination of control or decontrol in, 698–699 factors in, 699–700 formal scheduling for drugs, basis of, 698–699

Controlled substances, drug control policy and, 697 increase in use of, 702 laws for, federal, 697–698 state, 698

Controlled Word Association Test (COWAT), of associations and category fluency, in ADHD, 272

Coping skills, in ADHD, 195

Corpus callosum, morphometric studies of, in ADHD in children, 329

Cortico-basal ganglionic degeneration, characterization of, 810-811 dementia in, 811 personality and mood changes in, 811 sleep disorders in, 811

Corticotropin-releasing factor, in stress response, 429–430

Corticotropin-releasing factor antagonists, in disaster therapy, 440 posttrauma, 440

Corticotropin-releasing factor (CRF), in alcohol withdrawal, 665 and anxiogenic effects in cocaine withdrawal, 663–664 in canabinoid withdrawal, 666–667 in drug withdrawal, 661–662

Corticotropin-releasing factor (CRF) systems, in anxiety disorders, 667-668

Cortisol, in posttraumatic stress disorder, 55 in PTSD, 434-435

Countertransferance, acute and chronic forms of, 572-573 in disaster psychiatry, 571-587 among 9/11 therapists, 577-578 changes in feeling, 585 changes in thinking and work, 584-585 complementary to sadistic rage, 580-581 concordant to persevering anxiety, 579-580 grief and, 583-584 to the grotesque, 582-583 at ground zero, 578-579 to malevolent universe, 583 to perpetrator transference, 581-582 avoidant, 574-575 Buffalo Creek disaster, 571 effect on patient and therapist. 574 existential despair and, 576 forms of, 573-574 overinvolvement, 575 post-9/11, 571-572 pre-existing attitudes and biases and, 574-576 special features of 9/11

experience and, 576–577 as interactive process, 573 in trauma context, models of, 572

Criminal population, addiction in, 620-621

Crisis intervention, psychological debriefing and, 411

Critical incident stress debriefing (CISD), 412-413, 552 in disasters, 531

Critical incident stress management (CISM), 552 teams in. Air Force, 461

Culture, definition of, 529–530 in disaster intervention, 523–524 with children, 528 cultural competency in, 527–528 research literature on, 524–526 meaning of, in disasters, 530 PTSD and, 526–527

Current Symptoms Scale-Self-Report Form, Barkley, in ADHD, 196–197

Cylert. See Pemoline (Cylert).

# D

D-cycloserine, in schizophrenia, negative symptoms, 12

Debriefing, 394, 411 accidents and, 414-415 across cultures, 417 adaptations of, 413-417 adverse effects of, 561 of children and adolescents, 416 clinical care and, 415 delayed model, 413 disasters and, 414 emergency service teams and, 407-408 evolution and current status, 407-423 futures in, concepts in, 417 individual differences in, 418-419 mass violence and terrorism, 419 stressors in, 418 talking therapies in, 418 timeline for, 418 for whom, 418 group, post-disaster, 402 historical group model of, 413 with military personnel, 412 military teams and, 407-408 Mitchell model for, 412-413 multiple meanings of, 419

historical group model of, 413 with military personnel, 412 military teams and, 407–408 Mitchell model for, 412–413 multiple meanings of, 419 pathogenesis vs. salutogenesis paradigm for, 417 psychological, early models, 412–413 workplace and, 415–416 World War I and, 408 World War II and, 408–409

Delirium, in Parkinson's disease, 799

Dementia, in cortico-basal ganglionic degeneration, 811 in FTDP-17, 812 in olivopontocerebellar atrophy, 808 in Parkinson's disease, 799 in progressive supranuclear palsy, 809-810

Dementia with Lewy bodies (DLB), characterization of, 804–805 depression in, 806 Parkinsonism co-occurrence in, 804 psychosis in, 805

Depression. See also Bipolar disorder; Major depressive disorder.
in ADHD, 191–192
in children and adolescents, alternative therapies for, 128–129
antidepressants for, clinical considerations with, 130 studies of, 120–121

bupropion for, 116–117 citalopram for, 125, 126 electroacupuncture for, 128 electroconvulsive therapy for, 129 fluoxetine for, 118–119, 122

future considerations in, 130–131 lithium for, 124–125, 127 mirtazapine for, 127 monoamine oxidase inhibitors for, 115–116 nefazodone for, 124, 126–127 repetitive transcranial magnetic stimulation for, 129

serotonin-selective reuptake inhibitors for, 117, 122 somatic treatment of, 113–136 St. John's Wort for, 128–129 trazodone for, 116

tricyclic antidepressants for, 113-114 vagus nerve stimulation for,

129-130 venlafaxine for, 124, 126

comorbid with substance use disorders, 667-669

in dementia with Lewy bodies, 805 nonsomatic (psychosocial) treatments of, 137–152

in olicopontocerebellar atrophy, 808–809 in Parkinson's disease, 801–802

in pediatric population, cognitive-behavioral therapies for, 138-139

family therapy for, 140

goal-oriented interventions with cognitive behavioral focus in, 144

interpersonal psychotherapy for, 139-140

multicomponent interventions in, problem of, 149

psychotherapy for, outcome studies of, 138

treatment approaches in, 138-140

school-based studies of,

behavioral role playing and cognitive restructuring, 145-146

cognitive-behavioral selfcontrol and behavior problem-solving training, 146

comparison of cognitivebehavioral therapy and relaxation techniques, 146

outcome assessments and self-reports in, 147

Primary and Secondary Control Enhancement Training, 147

response rates in, 147–149 social-competence training, 146–147

superiority of cognitive behavioral or relationshipfocused therapies in, 147-148

treatment of, in clinically diagnosed samples, 140–145 guidelines for, 150 health services policy and, 149

> interpersonal and social targets in, 145 psychotherapies in, efficacy

of, 150-151 response to, 144 in undiagnosed

symptomatic samples, 145-147

in progressive supranuclear palsy, 810 psychosocial treatments of, 137–152 in Shy-Drager syndrome, 807 unipolar, brain function in, 26 cognitive function in, 26

Desipramine, for ADHD, in adults, 374-375

in children and adolescents, 373–374 for cocaine dependence, 654 Dextroamphetamine, vs. amphetamine abuse liability, 294

Dialectical-behavioral therapy (DBT), modified, group, in ADHD, 353-354

Diminished capacity, in addiction psychiatry, 619

Disability, in addiction psychiatry, 614–616 Americans with Disabilities Act and, 615–616 definition of, 615

Disaster psychiatry. See also War psychiatry.

acute setting, psychopharmacology in, 425-458

collaboration in, with nonmental health agencies, 394

countertransferance in, 571-587. See also Countertransferance, in disaster psychiatry.

culture in, as concept, 529-530 diagnosis and, 530-531 role of, 530 and therapy and healing,

531-532 definition of, 392-393

elements of, 393-394

ethnocultural considerations in, 521-539. See also Ethnocultural

considerations; in disaster psychiatry.

general, **391–406** goals of, 393

international, 505-519 interventions in, scientific information

on, 394 mental health research and, after 9/11,

589–602 outreach practice model in, 394

preschoolers and, stress post-9/11, 473–489

psychiatric-legal considerations in, 559-570

systems issues in, emergency management response system, agency coordination in, 542 Federal Response Plan,

543-544 Incident Command System and, 542

Federal Emergency Management Agency, 543

federal resources and, 546-548

local programs, with federal support, 548 for psychiatrists, **541–558**  Disaster psychiatry (continued)
public health system and
emergency medical services,
543-545
voluntary agency response,
549-553

vs. trauma psychiatry, 393

Disaster research, in determination of treatments, 593 post-9/11, in city and surrounding

areas, 593-594

development of, 597-600 comparison with Oklahoma City bombing research, 599

confidentiality regulations and, 599-600

and, 598-599 populations for, 597-598

turf issues in, 599

exposure populations in, sampling of, 596–597 screening of, 596

in immediate vicinity, 593 in PTSD, 595-596

recommendations and policy for, 600

post-disaster, exposure populations in, 594–595

principles of, application of, 591-592

value and role of, im mental health interventions, 590-591

Disaster(s), acute impact, professional competition and conflict, 554 psychiatrists' roles in, 554-555 Buffalo Creek, 391-392

clinical implications of, 401–404 collective and individual trauma,

normal vs. pathological responses, 523

cultural competency guidelines in, 527–528

as cultural encounters, 523-524 culture in, 523-524 definitions of, United Nations,

505–506 United Nations,

World Health Organization, 391–392

federal resources in, 544

Centers for Disease Control and Prevention, 547

Department of Veterans Affairs, 547

National Center for Post-Traumatic Stress Disorder, 547 National Disaster Medical System, 546 National Institute of Mental Health, 547 Substance Abuse and Mental

Health Services Administration, 546–547

global implications of, 522 international. See International

disaster(s).
interventions in, indigenous partners

in, 531–532

research role in, 590-591 local programs, community emergency response teams, 548

Medical Reserve Corps, 548
Metropolitan Medical Response
System, 548

man-made, omission vs. commission in, 397-398

vs. natural events, 392, 397, 398 mental health aftermath of, 395-398

anxiety problems, 395 major depression, 395

posttraumatic stress disorder following, 395-396

substance abuse, 395-396 natural vs. man-made, 506

psychiatrist role in, consultation with public health officials, 553-554 planning emergency

management, 553

psychopharmacology in, 425-458, 435

anticonvulsants, 443–444 antipsychotics, 442–443 β-adrenergic blockers, 435–437

benzodiazepines, 437–439 cholecystokinin, 445–446 corticotropin-releasing factor

antagonists, 440 ethanol, 444–445

glucocorticoids, 440-441 neuropeptide Y, 445 opiate agonists, 441

α<sub>2</sub>-receptor agonists, 437 sedative hypnotics,

nonbenzodiazepine, 439 serotonin reuptake inhibitors, 441–442

recovery from, long-term treatment, 555

short-term interventions, 555-556

special populations in, 396 survivors' psychological reactions, 396–397

terrorism as, 398–401. See also Terrorism. voluntary agency response in, American Group Psychotherapy Association, 552

> American Psychiatric Association, 550–551

> American Psychological Association, 550–551

American Red Cross, 549 American Red Cross Disaster Mental Health Services, 549–550

Disaster Psychiatry Outreach, 551

International Critical Incident Stress Foundation, 551-552

International Society for Traumatic Stress Studies, 552–553

National Alliance for the Mentally Ill, 551-552

National Mental Health Association, 552

National Organization for Victim Assistance, 540

National Voluntary Organizations Active in Disaster, 549

Disaster worker, culture and, 529-530

Disinhibition, in ADHD, 324–325 in children and adolescents, antidepressant-induced, 130

Disruptive behaviors, antidepressant-induced, 130

Dissociation, neurobiology of, 432 N-methyl-D-aspartate receptor in, 432

in posttraumatic stress disorder, 60-61 as risk factor for PTSD, 432 as stress response, 430

Disulfiram, for alcohol addiction, 633-634 for cocaine addiction, 640-641

Divalproex, for comorbid substance abuse and bipolar disorder, 656

Divalproex sodium (valproate sodium). See Valproate sodium.

Donepezil, for Parkinson's disease, 799

Dopamine, endogenous, anatomy and physiology of, 778–780

Dopamine receptor gene(s), in ADHD, DRD4, 308-309 DRD5, 311 in gene-brain hypotheses, DRD4, 338-339

Dopaminergic medication, cognitive impairment with, 799 for Parkinson's disease, psychosis with, 800

Dopaminergic neurons, activity of, 778

Dopamine system, in ADHD, 307-311

Dopamine systems, mesocortical, 780 mesolimbic, 779 nigrostriatal, 779

Dopamine transporter gene (DAT), in ADHD, 310-311

Dorsal anterior cingulate cortex (dACC), neuroimaging studies of, in ADHD, in adults, 336–337 in children and adolescents,

328

Dorsal lateral prefrontal cortex (DLPFC), disruptions in, cognitive impairment and, 24-25

Driving, alcohol- and drug-related offenses, in addiction psychiatry, 620

Driving performance, in ADHD, in adults with ADHD diagnosis in childhood, 252-253

impaired and adverse, behavioral therapy for, 253–254 stimulants for, 254–255

treatments for, 253–255 operational level of, 243 strategic level of, 237–238 studies of, 240–241, 243

simulators in, 238–239, 242, 244–246

substance use impact on, 227-230, 243-246 tactical level of, 236-243

anger, hostility, aggression and, 250–252

cognitive abilities for, 240-241 current models of, as

multi-dimensional activity (Michon), 237–239

operational level in, 236 strategic level in, 237–238

tactical level in, 236-238 skill-rule-knowledge

(Rasmussen), 238–239

Drug dependence, neurobiological mechanisms in, 661-662

Drug use/abuse, in adults with ADHD, impact on driving, 243–246 during critical periods of brain growth, 105 potential for abuse, 699 as threat to public health, 687

Drug withdrawal, duration of, 693 neuronal substrates in, for amphetamine, 664-665 for cannabinoids, 666-667 for cocaine, 662-664 from opiates, 693-694

d-Serone, in schizophrenia, for negative symptoms, 12

Dual-diagnosis disorders, categorizing of, model for, 728

Dual-diagnosis integrated treatment (IDDT), 725-726

Dual-diagnosis patient, assertive community treatment for, 711–712 behavioral interventions for, 707–723 comprehensive continuous integrated

system of care for, **725–741** accomplishments of, 739 case management in, 729 clinical outcomes for, 730 diagnosis in, 728–729 disease and recovery model

disease and recovery model in,
730
implementation of, steps in,

731–736 interventions in, 730

primacy of each disorder in, 729-730

project descriptions and outcomes, Manitoba, Canada, 737-738 New Mexico, 736 San Diego, 738-739

Vermont, 737 treatment relationships in, 729 employment and housing for,

> 712-714 individual placement and support model for, 713-714

epidemiology of, 707 family interventions in, 714–716 housing needs of, 715

individual interventions for, cognitive-behavioral therapy, 711

motivational enhancement, 710 residential rehabilitation programs for, 713-715

therapeutic communities, 714, 716

treatment models for, emergency, 709-710 four stages of therapeutic process

model, 709 parallel model, 708

treatment of, coerced intervention, 719–720

family interventions in, 714–716 group therapy for, 717 involuntary intervention in, 719–720

multiple family groups in, 716-717

persuasion groups for, 717 seeking safety therapy in, 718 social skills groups for, 718

Duty to protect or warn, in addiction psychiatry, 617

E

Eating disorders, in Parkinson's disease, 803

Ecstasy, cognitive impairment from, 103 neurological damage from, 103

Elderly, depression in, comorbid with alcohol abuse, comorbid, 668–669 schizophrenia in, cognitive impairment and, 5–6

Electroacupuncture, in pediatric depressive disorders, 128

Electroconvulsive therapy (ECT), in bipolar disorder, adults, 167

children and adolescents, 167 for depression, in Parkinson's disease, 802

in pediatric depressive disorders, 129

Encephalitis lethargica (von Economo encephalitis), 187, 205

Ethanol, in disaster therapy, 444-445

Ethnocultural considerations, in disaster psychiatry, 521-539

cultural competency guidelines and, 527-528 culture as concept in, 529-530

disaster worker and, 522, 528–529

in PTSD, 525-527 research needs, 534-535 response to

pyschopharmacological agents, 521–539

training needs, 534 in international disaster interventions, 507–509 Evidence-based best practice. See also Best practice.

in dual-diagnosis treatment, 735

Executive function/executive dysfunction, in ADHD, 83–96, 191, 262–263. See also Attention deficit hyperactivity disorder (ADHD).

in children, 274

in bipolar disorder, 23

in borderline personality disorder, 68 deficits in ADHD, driving and, 241

definition of, 84

in depression, 26

in mood disorders, structural and functional abnormalities of brain regions in, 25

in obsessive-compulsive disorder, 38-39

Expert witnesses, in forensic work, liability of, 624

Eye-movement desensitization and reprocessing, 394

### F

Family, in dual-diagnosis treatment, 714-717

Family behavioral therapy, in dual disorder treatment, 714-716

Family therapy, in pediatric depression, 140

Fear, as conditioned response, memory in, 431-432

in posttraumatic stress disorder, 58–59

in face of ongoing threat, 403-404 Fentanyl, in operating room air, 749

Fetal alcohol syndrome (FAS), 105

Fetus, in addiction psychiatry, 619-620

Flashbacks, adaptive and pathological significance of, 431

Fluoxetine, in children and adolescents, studies of, 118-119

Fluvoxamine, in pediatric depressive disorders, studies of, 121, 122-123

Frontal-striatal-thalamic-cortical (FSTC) circuitry, in attention-deficit/ hyperactivity disorder, 86-88

Fronto-striatal circuits, of basal ganglia, in attentional set shifting, 765 circuit-specific functions of, 763-768 in executive function, 765
in goal-directed behaviors, 768
in motivational and affective
information, 766
motor, 764
oculomotor, 764-765
parallel segregated or
functionally interacting
views, 768-770
in reversal learning and
extinction, 767-768
in reward processing, 766-767
in social behavior and empathy,

structure of, 760-764 in working memory, 765

Fronto-striatal system, in executive function deficits, 39

FTDP-17, characterization of, 811-812 dementia in, 812

Functional neuroimaging studies, in attention disorder/hyperactivity disorder, 89–90 with cognitive challenges, in mood disorders, 25–26 in obsessive-compulsive disorder, frontal-striatal abnormalities in

# G

Gabapentin, in children, 164

Gamma aminobutyric acid (GABA), in basal ganglia circuitry, 781

Gender, effect of, on ADHD, 225–232 on neuropsychological abnormalities, in ADHD, 268–270

Genetics, of ADHD, adoption studies of, 305-306

in adulthood, 313–315 in childhood, 304–313 family studies of, 304 molecular studies of, 306–313 candidate gene approach in, 307–313 genome scan approach in.

genome scan approach in, 307 twin studies of, 304-305

Glucocorticoids, in disaster therapy,

Glucocorticoids, in disaster therapy, 440–441 posttrauma, 440–441

Glutamate, action of, 781–782 within cortico-basal ganglia loops, 782 in stress response, 428 Good Samaritan laws, 560

Grief, of therapists, in 9/11 disaster, 583-584

Grief counseling, in psychological trauma, 410

Group therapy, for dual-diagnosis patient, 717-718

Guanfacine, post-disaster, 437

Gulf War Syndrome, 408-409

# H

Hallucinogen abuse, flashbacks from, 104 neurotoxicity of, 104

Harvard Trauma Questionnaire, cross-cultural versions of, 509

Health-seeking behaviors, of disaster victims, 529

Heroin use, lung function in, 684

Hippocampus, anatomy of, in posttraumatic stress disorder, in declarative and fragmented memory, 54-55

disruptions in, cognitive impairment and, 24-25

in posttraumatic stress disorder, declarative memory impairment and, 56 traumatic amnesia and,

61-62 in stress reactions, 427-428 and traumatic memories, 431

Hostages, reintegration into society, 464-465 Stockholm effect in, 399

Hydrocortisone, posttrauma, 440-441

Hyperactivity/impulsivity, in ADHD, 189-191, 227-228, 230 auto accidents and, 234-235

Hyperarousal, adrenergic mechanisms in, 433

Hypomania, in children and adolescents, antidepressant-induced, 130

Hypothalamic-pituitary-adrenal axis, hippocampus and, 435 in PTSD, 434

Hypothalamus-pituitary-adrenal (HPA) axis, in anxiety disorders, 667–668 1

Immunotherapy(ies), for cocaine addiction, 642

Inattention, in ADHD, 189-191, 227-228, 230

auto accidents and, 234

Individuals with co-occurring psychiatric and substance disorders (ICOPSD). See *Dual-diagnosis patient*.

Infants, disaster intervention with, after initial reaction to events, 483–484 posttraumatic stress in, 475

International disaster(s), capacity building in, mental health in primary care, 512–513

interventions in, cross-cultural difficulties in, 508–509 direct, community-based, 511 goals of, 508 indirect efforts, psychosocial impact of, 510–511

international relief community in, 509–510 needs for, evidence-based

literature, 506–507 self-reflection, 507–508 for relief workers, 516 work with local leaders in, 512

mental health in, in community, group, and individual settings, 513-515

individual, 514-515 toxic, Bhopal, 515-516 Chernobyl, 516

psychological impact of, 515–516 Interpersonal psychotherapy (IP), in

pediatric depression, 139–140 comparison with clinical monitoring, 143–144

Involuntary commitment, in addiction psychiatry, 613–614

Involuntary intervention, dual-diagnosis patient and, 719-720

3

Jails and prisons, addiction treatment in, 621

# K

Kiddie-SADS (K-SADS) Diagnostic Interview Section, for ADHD, 197 L

Lamotrigine, in bipolar disorder, in children and adolescents, 163–164 in chronic PTSD, 443–444

Learning disabilities, in ADHD, in adolescents, 266 in children, 264–266 brain abnormalities and, 332 relationship with neuropsychological

dysfunctions, 266–267 definitions of, 265–266, 332

Levomethadyl acetate (LAAM), for opioid addiction, 637-638

Liability, professional, in addiction psychiatry, 616 of rescuer, in emergency assistance, 559-560

Light therapy, in pediatric depressive disorders, 125, 127–128

Lithium, in adults, for manic and depressive episodes, 154–155 for bipolar disorder, response to, in substance abuse disorders, 655 in children and adolescents, 155 adverse effects of, 159 with bipolar disorder and substance dependence, 156 controlled studies of, 156–157 dosing of, 157 drug interactions with, 159 duration of treatment, 157–158

duration of treatment, 157–1 open studies of, 156–157 pharmacokinetics of, 160 predictors of response and resistance to treatment, 159–160

side effects and, common, 158 myoclonus from, 30 in pediatric depressive disorders, 124–125, 125, 127

Locus coeruleus, anatomy of, 51, 53 in posttraumatic stress disorder, hyperarousal and, 53–54 memory consolidation and, 54

M

Magnetic resonance imaging (MRI), functional, in ADHD, 89-90

Major depressive disorder. See also Depression. alcoholism in, pharmacotherapies for, 653-654 cocaine dependence and, pharmacotherapies for, 654 criteria for, DSM-IV, 19–20 opiate dependence in, cocaine dependence and, 654 in Parkinson's disease, 801–802 post-disaster, long-term aftermath of, 403 research findings and, 592 substance use disorders comorbid in, 652–654

Mania, in children and adolescents, antidepressant-induced, 130 in Parkinson's disease, 802

Massachusetts General Hospital, ADHD studies, 225–232, 378–381 methylphenidate in, 362–367 cognitive-behavioral therapy study, for ADHD in adults, 354–358 distractibility in, 356

dysfunctional thoughts in, 356–357 organizational and planning skills in, 354–355 results of, 357–358 targets of, 3454–357 treatment protocol in, 357

motivational interviewing techniques in, 355–356 problem-solving training in, 355–356

Memory, executive function disturbances and, 39-40 in mood disorders, loss of,

23-24 in posttraumatic stress disorder, declarative and fragmented, 54-55

structural and functional abnormalities of brain regions in, 25

Mental health professional, post-disaster, knowledge of psychological and physical effects of weapons of mass destruction, 402 as media advisor, 402–403

Mesocortical dopamine system, 780

Mesolimbib dopamine system, 779-780

Methadone, effects of, 690 for opioid addiction, 636–637

Methamphetamine, cognitive impairment' from, 102-103 Methylphenidate (MPH), for ADHD, in adults, 362-367

National Institute of Mental Health study of, 367-368

in children and adolescents vs. in adults, 362

for driving performance, 254–255

Massachusetts General Hospital study of, 362–367 design and method in,

363-364 inclusion and exclusion criteria for, 362-363 response to treatment in.

365-367 results in, 364-366

in cocaine abuse/dependence and ADHD, 292-295

Military issues. See also War psychiatry. in psychological trauma of war, 459-471

Mirtazapine, in comorbid alcoholism and depression, 654 in pediatric depressive disorders, 127

Monoamine oxidase inhibitors (MAOIs), for ADHD, 376-377 in children and adolescents, 115-116

Mood, in cortico-basal ganglionic degeneration, 811

Mood-cognition relationship, 20, 31

Mood disorders. See also Bipolar disorder; Depression; Major depressive disorder. in ADHD in children, brain abnormalities and, 332–333

brain in, functional neuroimaging of, with cognitive challenges, 25-26

regional blood flow in, and cognition, 25-26 structural and functional

abnormalities of, 24–27 characterization of, 19–20 cognitive and neurological impairment

in, 19-36 cognitive deficits in, 21-24, 22-23

across states, 22 attention/working memory, 22 in bipolar disorders, 26 in unipolar depression, 26

limbic region in, functional abnormalities in, 24 neuroimaging in, 20

incidence of, 19

neurological deficits in, 27–31 across mood states, 28 catatonia, 28–29, 28–39 myoclonus, drug-induced, 29–30 parkinsonism, 30–31 psychomotor agitation, 28 psychomotor retardation, 27–28 tardive dyskinesia, 30

relationships in, among mood, cognition, and movement, 31

Mood stabilizers, for comorbid alcoholism and bipolar disorder, 655-656

Morphine, effects of, 690

Morphine addiction, Halsted and, 745

Morphine sulfate, posttrauma, 441

Movement, relationship with mood and cognition, 31

Multiple system atrophy (MSA), diagnostic criteria and features of, 806 Parkinsonism in, 806 types of, 806

Myoclonus, drug-induced, in mood disorders, 29–30 obsessive-compulsive disorder and, 40

N

Naltrexone, for alcohol addiction, 634-635 for opioid addiction, 639

Nefazodone, in pediatric depressive disorders, 124, 126–127

Neonates, maternal opiate use and, 684

Neuroimaging, in ADHD, 88–91 functional, 89–90 neurochemical, 90 structural, 88 in mood disorders, 20 in obsessive-compulsive disorder, 42–43

Neuroleptics, in schizophrenia, brain structure and, 7–8 tardive dyskinesia from, 30

Neuropeptide Y, in disaster therapy, 445 post-disaster, 445

Neuropsychiatry, of Parkinson's disease and related disorders, 797-821

Neuropsychological dysfunction, in ADHD. See also *Learning disabilities*. in adolescents, 264 in adults, 270–273 tests of, 271–273 in children, 263 gender effects on, 268-270 learning disabilities in. 264-267

psychiatric comorbidity and. 264

brain structure and function relationship to, in ADHD, 273-274

heterogeneity of ADHD and. 267-268

Neuropsychological function, in ADHD, in adults, 261-282

> future research in. 274-275

future research directions for, genetics, 274-275 integration of models in, . 275

longitudinal study. 274

significance of deficits in, 275 treatment approaches,

Nicotinic treatment, for attentional

disorder, in schizophrenia, 12 Nictotine replacement therapy.

for smoking cessation, 630-631 Nightmares, posttrauma, shared, case illustration of, 478-480

Nigrostriatal dopamine system,

Nimodipine, in cycling affective disorder,

N-methyl-D-aspartate (NMDA) antagonists, during trauma, 432

N-methyl-D-aspartate (NMDA) receptor, dissociation and, 432

Noradrenergic agents, for ADHD, 292

Noradrenergic system, sensitization of, in PTSD, 433-434

Norepinephrine, in posttraumatic stress disorder, 54 in stress response, 429

Nortriptyline, for smoking cessation,

Novel anticonvulsants, for bipolar disorder, in children and adolescents, 163-164

Nucleus accumbens, structure and function of, in ADHD in children, 330

Obsessive-compulsive disorder (OCD). cognitive and neurobiological findings in, 37-47

> neurobiological findings in, 40-41 neurological soft signs in, 41 interpretation of, 42

neuropsychological findings in, executive function deficits. 38-39

nonverbal memory impairment.

visuospatial deficits, 37-38 treatment of, functional neuroimaging findings following, 42-43

Olanzapine, in bipolar disorder, 166-167 in dementia with Lewy bodies, 805 in Parkinson's disease, 801 in prepubertal children, 167

SSRIs in, 42

Olicopontocerebellar atrophy (OPCA), dementia in, 808 depression in, 808-809 psychosis in, 808-809 sleep disorders in, 809

Omega-3 fatty acids, for bipolar disorder.

Opiate agonists, in disaster therapy, 441 posttrauma, 441

Opiates. See also Prescription opiates, addiction to. actions of, 689-690

> addiction to, 687-706 in anesthesia, addiction to, 744-749 detection of in operating room air, 749

anesthesiologist exposure to, in operating room air, 747-749 effects of, 690-692

intoxication from, criteria for, 694-695

effects of, 693-694

medical uses of, 690-692 mental and motor impairments from, 693

mu receptor and action of, 689-690 specific drug689s

tolerance to, 692-693

types of, 689

withdrawal from, duration of, 693 pharmacologic therapies for, 694 symptoms of, 694

Opiate use/abuse. See also Prescription opiate addiction. and hepatitis C, 683-684 and HIV, 683

Opiate use/abuse (continued) overdose and, 683

Opioid addiction, pharmacotherapies for, buprenorphine, 638-639 levomethadyl acetate, 637-638 methadone, 636-637 naltrexone, 639 opioid agonists, 636-639 opioid antagonists, 639

Opioid agonists, for opioid addiction, 636-639

Opioid antagonists, for opioid addiction, 639

Opioid dependence, pharmacotherapies for, 629-630

Opium use, laryngeal cancer from, 684

Orbito-frontal cortex (OFC), dysfunction of, in obsessive-compulsive disorder, 40, 43

lesions in, and cognitive deficits in obsessive-compulsive disorder, 39

Oxycodone, effects of, 690-691

# P

Pain, chronic nonmalignant, management of, professional liability in, 616

Pallidotomy, for Parkinson's disease, effects of, 799-800

Pallidum, inputs and internal organization of, 758-759 output from, 759

Panic attacks, in Parkinson's disease, 802

Paraphilias, in Parkinson's disease, 804

Parents, education in trauma and PTSD,

participation in PTSD intervention, 487

posttraumatic stress in, effect on child, 492-493 relationship with preschooler

and, 477-478 trauma of child and, 474

Parkinsonism, neuroleptic induced, 30-31

Parkinson's disease, alcohol, substance abuse, and eating disorders, 803 anxiety in, 803 characterization of, 798–799 cognitive disorders in, 799–800 depression in, major, 801–802 executive dysfunction in, 765–766 fronto-striatal circuits in, 768
mania in, drug-related, 801
neurodegenerative proteinopathies in,
797–798
paraphilias in, 804
pathophysiology of, glutamate in, 782
psychosis in, drug-induced, 800
treatment of, 800–801
and related disorders, neuropsychiatry
of, 797–821
sexual disorders in, 804
sleep disorders in, 803–804
treatment of, 798

Paroxetine, in pediatric depressive disorders, studies of, 120-121, 123

Pemoline (Cylert), for ADHD, in adults, 367-369

Personality changes, in cortico-basal ganglionic degeneration, 811 in progressive supranuclear palsy, 810

Phenytoin, in stress prevention, 444

Physicians, with addictive disorders, reporting requirements for, 623-624 prescribing practices of, attitudes in, 703-704 factors in, 704 risk for addiction in, 744-745

historical examples of, 745
Positron emission tomography (PET), in

Posttraumatic growth, 523

ADHD, 89

Posttraumatic stress disorder (PTSD), amygdala in, physiological reactivity in, 59

positron emission tomography study findings, 59

in children, developmental issues and symptoms, 592

conditioned responses in, 432 controversies surrounding, 50 cost to individual and society, 49–50 cultural variations in, literature on, 525–526

culture and, 526-527 development of, theories of, 430 diagnostic criteria for, DSM-IV, 52-53

disasters and, long-term aftermath of, 403

etiology of, cortisol in, 434–435 hippocampus in, anatomy of, 54–55 cortisol effect on, 55–56 and declarative memory impairment, 56 function in memory, 55 and traumatic amnesia, 56–57 volume reduction issue in, 55–56 Jocus coeruleus in, anatomy of, 51, 53 and hyperarousal symptoms, 53–54

and memory consolidation, 54 need for balance of vulnerability and responsibility in, 62–63 neurological change and clinical

correlates, 49–65

noradrenergic system in, sensitization of, 433–434

post-disaster, 395-396 medical model approach to, 595 research findings, 591-592

risk factors for, PTSD in childhood, 474

signs and symptoms of, 51 startle response in, amygdala in, 58 thalamus in, anatomy of, 59–60 and attentional bias, 61 and dissociation, 60–61

and traumatic amnesia, 61–62 Vietnam War and, 410–411

Prazosin, post-disaster

Prefrontal cortex, imaging studies of, in ADHD in children, 328 medial, in stress reactions, 428

Pregnancy, in addiction psychiatry, 619-620

Preschool children, disaster intervention with, after initial reaction to events, 483-484

Prescription monitoring programs, prescription form for schedule II drugs, 701–702 public and private reactions to, 702–703 studies of, 703

Prescription opiates. See also Controlled substances, Opiates. addiction to, 687–706

drugs of abuse in, 688 in health care professionals, 689 opiate actions and, 689–690 physician identification, diagnosis, and referral for,

695–696 populations at risk, 688 research needed for, 704 treatment of, 696 benefits and risks of, 690 controlled substance policy and laws

and, 697-698 market profits from, 688 medical uses of, 689-692 physician attitudes and practices regarding, 696–697 physicians as source of problems and solutions, 695–696 scheduling for controlled substances.

698-701 Preventive psychiatry, 409-410

Prison, addiction treatment in, 621

Prisoners of war, persons at risk, Survival, Evasion, Resistance, and Escape training for, 464 reintegration into society and, 465

Professionals, with addictive disorder, fitness to practice and, 622 drug testing of, 623–624 impairment and fitness to practice, 622–623 tissue testing of, 623–624

Progressive supranuclear palsy (PSP), anxiety in, 810 characterization and diagnosis of, 809 dementia in, 809–810 depression in, 810 personality changes in, 810 psychosis and bipolar disorder in, 810 sleep disorders in, 810

Propofol, in operating room air, 749-750

Propranolol, in prevention of PTSD, 436–437 re-emergent, 436–437

Proton magnetic resonance spectroscopy, in ADHD, 90

Proximity, immediacy, expectancy, simplicity (PIES), in combat psychiatry, 460

Psychiatric disorders, co-occurrence with substance use disorders. See also *Dual-diagnosis patient*. substance abuse in, for self-medication, 669

Psychiatric-legal issue(s), in disaster mental health assistance, accuracy of record keeping, 564-567

causation and, 566 diagnoses and, 565–566 diagnosis vs. disability and, 565

advice giving and liability, 563-564 compensation-related paperwork, 567-568 Psychiatric-legal (continued)
confidentiality and media,
562-563
diagnosis without corroboration,
566-567
documentation, 562
for compensation of

survivors, 564 litigation effect on mental state and treatment, 568–569 malingering, 568–569 report preparation, 568 role maintenance, 563–564

secondary gain, 569 in emergency assistance, adverse effect of treatment and, 561 doctor-patient relationship in, 559–560

Psychodynamic techniques, in post-disaster intervention, 404

Psychoeducation, in post-disaster intervention, 404

Psychological trauma, civilian, victim groups and, 409 debriefing and, early models, 412-413 historical perspective, 411-412 grief counseling in, 410 in war, 407-409

Psychomotor retardation, in mood disorders, 27–28

Psychosis, in dementia with Lewy bodies, 805 in olicopontocerebellar atrophy,

808-809 in Parkinson's disease, 800-801 in progressive supranuclear palsy,

Psychosocial treatments, for ADHD, in adults, 349-360

cognitive approaches, 350-358 dialectical-behavioral therapy in, 353-354

for comorbid substance abuse and bipolar disorder, 656-657

Psychotherapy, cognitive-behavioral, 138–139, 141–143 for comorbid depression and substance abuse, 654 individual and group, post-disaster, 401–402 interpersonal, 139–140

outcome studies of, 138

0

Quetiapine, in dementia with Lewy bodies, 805

Quetiapine fumarate, in bipolar disorder, single case report in child, 166

R

Relapse prevention, in substance abuse disorders, 627-648

Repetitive transcranial magnetic stimulation, in pediatric depressive disorders, 129

Residential programs, for dual-diagnosis patients, 713–715, 735

Resilience, in disaster, 591 sources of, 500 of traumatized children, enhancement of, 499–500

Risperidone, in bipolar disorder, reduction of manic, psychotic, aggressive symptoms, 166

Rivastigmine, in dementia with Lewy bodies, 805, 806

Road rage. See Anger, hostility, and aggression. in ADHD, 250-252

8

Sanity, in addiction psychiatry, 618-619

Schedule II drug, criteria for, 700

Schedule III drug, criteria for, 701

Schedule IV drug, criteria for, 701

Schizophrenia, brain hypertrophy in, medication-induced, 7 cognition and brain structure in, 1–18 in elderly, cognitive deterioration in, 5–6

neuroanatomic abnormalities in, caudate size, 3 in cellular architecture, 4 enlarged ventricles, 3, 6 left hemisphere, 4 thalamic, 4

neurocognition in, with aripiprazole relative to olanzapine, 10-11 atypical antipsychotics and, 9-10 conventional antipsychotics and,

medication effects on, 9-12

risperidone relative to conventional neuroleptics,

neurocognitive deficits in, 1-3 according to clinical symptomatology, 2-3

course across lifespan, 4-6 disorganization and, 2-3

episodic memory and vigilance, 3

neurodegenerative model of, 6-7 volume reduction of gray matter,

neurodevelopmental model of, 8-9 versus neurodegenerative, 9 signs and symptoms of, 1

Sedative hypnotics, in disaster therapy, 439 posttrauma, 439

Seeking safety therapy, for dual-diagnosis patient, 718

Selective serotonin reuptake inhibitors (SSRIs). See Serotonin reuptake inhibitors.

Self-assessment, of driving performance, in ADHD, 246-249

Self-medication, in co-occurence of psychiatric and substance use disorders, 669, 707

Sensitization, opiate addiction and, 745, 747-748

Separation anxiety, 494

Serotonergic agents, for alcohol addiction, 635

Serotonergic system, in ADHD, 312-313

Serotonin, in basal ganglia, 782

Serotonin reuptake inhibitors. See Selective serotonin reuptake inhibitors (SSRIs).

Serotonin reuptake inhibitors (SSRIs), in children and adolescents, 117, 122 in disaster therapy, 441–442 in major depression in alcoholics with 5-HT abnormalities, 653 in obsessive-compulsive disorder, 42 in Parkinson's disease, 802 PTSD and, neurobiology of, 441–442

Sertraline, in pediatric depressive disorders, studies of, 120, 123–124

Sexual disorders, in Shy-Drager syndrome, 808

Shell shock, 408

Shy-Drager syndrome, cognitive disorders in, 807 depression in, 807 sexual disorders in, 808 sleep disorders in, 808

Single photon emission CT, in ADHD, 89

Sleep disorders, in cortico-basal ganglionic degeneration, 811 in olicopontocerebellar atrophy, 809 in Parkinson's disease, 803 in progressive supranuclear palsy, 810 in Shy-Drager syndrome, 808

Smoking, addiction to nicotine in, 676 prevalence of, 675

Smoking cessation, pharmacotherapies for, 627–633 bupropion, 632 clonidine, 632–633 nicotine replacement therapy, 630–631 nortriptyline, 632

SNAP-25 transgene, in ADHD, 312

Social skills groups, for dual-diagnosis patient, 718

Soft signs, in obsessive-compulsive disorder, 41-42 and in schizophrenia, 42

St. John's Wort (Hypericum perforatum), in pediatric depressive disorders, 128–129

Startle response, amygdala in, in posttraumatic stress disorder, 58

Stimulant therapy, for ADHD, 292 in adults, 361–372 substance use disorder risk and, 286

cognitive impairment from, 102-103

Stress response, neurotransmitters in, corticotropin-releasing factor, 429–430 glutamate, 428 norepinephrine, 429

> pathological, cognitive changes and, 430–432

memory and fear conditioning in, 431-432

to traumatic events, amygdala in, 426-427 hippocampus in, 427-428 medial prefrontal cortex in, 428 neurobiological basis of, 426-428

Striatonigral degeneration (SND), 807

Striatum, corticostriatal input to, 757

850 Striatum (continued) disruptions in, cognitive impairment and, 24-25 efferents of, 758 locus coeruleus projections to, 758 mesencephalostriate input to, 757-58 midbrain Raphe nuclei projections to, 758 organization of, 756-757 thalamostriate input to, 758 Stroop task, test of inhibition, in ADHD, Substance abuse, cognitive impairment from, in adolescence, 105 alcohol, 99-100 amphetamine/ methamphetamine, 102-103 cannabis, 100-102 cocaine, 102 ecstasy, 103 hallucinogens, 104 Korsakoff's dementia, 100-101 multiple drug dependence and. 104-105 prenatal exposure and, 105 stimulants, 102-103 treatment implications of, 105

> treatment, 106 for program design, 106-107 screening for, 106 cognitive impairment in, 97-109 disorders consequent to, 97-99 in Parkinson's disease, 803 polydrug, neuropsychological deficits with, 104-105 post-disaster, 592-593 substance-induced disorders from,

for goals and choice of

Substance use disorder (SUD), in ADHD, 283-301

97-99

in adolescents, 284 in adults, 284 auto accidents and, 235 diagnosis of, 291-292 familial relationships between, 288-289 gender influence on, 227-230 impact on driving, 243-246 literature review of, 289-290 longitudinal studies of, 287 nonstimulant agents for, 294 onset of, 288-289 parental, 286 pathways in, 287-288 remission from, 288

risk factors for, 285-287 treatment of, 291-295 cognitive-behavioral therapy for, 711 comorbidity of psychiatric disorders and, 667-668 co-occurrence with psychiatric disorders. See also Dual-diagnosis co-occurring affective disorders and. 649-659 in criminal population, alternatives to incarceration, 620-621 disasters and, long-term aftermath of, 403 prescription opiates in. contraindication to, 687 psychiatric disorders in, screening for, relapse prevention in, pharmacologic, 627-648 self-medication hypothesis in, 290-291

Substantia nigra reticula, 759-760 Subthalamic nucleus (STN), 760 Sufentanil, addiction to, 745-747 Suicide, malpractice claims and, in addiction psychiatry, 616

in Parkinson's disease, 802 Supportive techniques, post-disaster, 401

Tandospirone, for memory problems, in schizophrenia, 12

Tardive dyskinesia, neuroleptic-induced, 30 risk factors for, in mood disorders, 30

Tauopathies, in Parkinson-related disorders, 798

Terror, psychology of, 402

Terrorism, from above vs. from below, 398-399 debriefing and, future, 419 definition of, 398 media coverage of, 398 mental health issues in, stage-specific approach to, 403 psychological impact of, 399 rumors related to biological or chemical weapons in, 401 weapons of mass destruction and, 400-401

psychological and physical

manifestations of, 402

Terrorism psychiatry, mass violence in, early intervention in, for adverse outcomes, 468-469

> best practice guidelines for, 467 components of, 468–469 debriefing in, 469 hierarchy of needs in,

planning of, 468 Pentagon attack on 9/11, family

assistance center for, 466 family casualty assistance care officer, 466 group intervention activities, 465-466

responding agencies, 465 weapons of mass destruction and, long-term reactions, 469 short-term reactions, 469 specific interventions in, 469–470

Thalamus, in ADHD in children, 330 anatomy of, 59-60 in posttraumatic stress disorder, attentional bias and, 61 dissociation and, 60-61 structure and function of, 330

Therapeutic communities, for dualdiagnosis patients, 714 interventions in, 716

Tiagabine, for cocaine addiction, 641

Tobacco use. See Smoking. cardiovascular disease and, 675–677 and chronic respiratory disease, 677 lung cancer and, 675 nonrespiratory cancers and, 676 women's health and, 677

Toddlers, posttraumatic stress in, 475

Topiramate, for alcohol addiction, 636 for chronic PTSD, 443

Tourette syndrome, obsessive-compulsive disorder in, 40

Trail Making Test, of visual search and perceptual motor speed, in ADHD, 271–272

Trauma psychiatry, disaster psychiatry vs., 393

military issues in, **459–471**. See also *War psychiatry*.

Traumatic amnesia, in posttraumatic stress disorder, 56 thalamus and, in posttraumatic stress disorder, 61-62 Traumatic brain injury, obsessivecompulsive disorder and, 40

Traumatic stress disorder, in children, characterization of, 485 intervention guidelines for, 486 with parents, 487 in preschoolers post-9/11, 473-489

Trazodone, in children and adolescents,

Tricyclic antidepressants (TCAs), for ADHD, 373–374 for anhedonia in cocaine dependence, 654 in children and adolescents, 113–114 for major depressive episodes with alcoholism, 653–654

W

Vagus nerve stimulation, in pediatric depressive disorders, 129–130

Valproate sodium, for bipolar disorder, in children and adolescents, 160–161 dosing of, 161 drug interactions with, 162 side effects of, 161–162

Valproic acid, in chronic PTSD, 443

Venlafaxine, for ADHD, 377
with alcohol and cocaine abuse,
292-293
with substance use disorder, 294
in pediatric depressive disorders, 124,

Verbal memory, in obsessive-compulsive disorder, 39

Violence, political, effect on children, 473

# w

War psychiatry, current combat and operational stress control efforts, 461–462
extension to mass trauma and terrorism, 459–460
in Korean War, 460
prevention in, 462
training and discipline in, 462
unit bonding and morale, 462–463
for prisoners of war, 464–465
for return to duty, principles in, proximity, immediacy, expectancy, simplicity, 460
in World War II combat fatigue, 460

in World War I shell shock, 460

- War psychiatry (continued) for the wounded, 463-464
- Wartime trauma, 408–411 military interventions in, 411
- Weapons of mass destruction, rumors related to, 401 threatened use of, as psychological warfare, 400–401 use of, psychological and physical manifestations of, 402
- Wechsler Adult Intelligence Scale (WAIS-R), subtests of, in ADHD,
- Wender-Reimherr Adult Attention Deficit Disorder Scales (WRAADS), 198

- Wernicke-Korsakoff dementia, from alcohol abuse, 100-102
- Wisconsin Card Sorting Test (WCST), in ADHD, in children vs. in adults, 272–273
- Working memory, spatial, in depression, 26

# Y

X chromosome, DXS7 locus on, in ADHD, 311

# 7

- Zaleplon, posttrauma, 439
- Zolpidem, posttrauma, 439

